

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

n C - 12 03 Alam Q Signature

Typed or printed name of person signing certificate

White

REVOCATION OF POWERS OF ATTORNEY AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C. 209 Main Street No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No. Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq. at (978) 273-3298.

Respectfully submitted,
Massachusetts Institute of Technology
By The M. Felipsion
Title: Patent Administrator
Date May 23, 2003
, 0
The Penn State Research Foundation
By:
Title:
Date

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket N	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmor	nary Drug Deliver	У
Patent No.:	N/A	Granted: N/A	·
Assignee:	<ol> <li>Massachusetts Institute c</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No	o.: 2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light P	articles for Pulmor	nary Drug Delivery
Patent No.:	6,503,480	Granted: January	7, 2003
Assignee:	<ol> <li>Massachusetts Institut</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9923 ·2. 9925	Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.	:2846.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A	I	
Title:	Porous Particles for Deep Lung Delivery (As Amended)		
Patent No.:	6,254,854	Granted: July 3,	2001
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.	: 2846.1001-008	
Application No.:	09/888,688	Group:	1616	
Filed:	June 25, 2001	Examiner:	R. Bawa	
Confirmation No.:	2505			
Title:	Porous Particles Compris Amended)	ing Excipients For	Deep Lung Delivery (As	
Patent No.:	6,436,443B2	Granted: August 20, 2002		
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institute</li> </ol>			
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
Applicants:	David A. Edwards, Jiovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-009	
Application No.:	09/891,131	Group:	1616	
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	2511			
Title:	Spray Dried Porous Partic	les For Deep Lung I	Delivery (As Amended)	
Patent No.:	6,447,753	Granted: Septem	ber 10, 2002	
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>	ate Research Foundation		
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No	.: 2846.1001-010	
Application No.:	09/888,781	Group:	1616	
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	9010			
Title:	Amorphous Porous Partic	cles For Deep Lung	Delivery (As Amended)	
Patent No.:	6,447,752	Granted: Septer	mber 10, 2002	
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institute</li> </ol>	· · ·		
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
			PERSON SERVICE OF THE STORE OF THE FREE	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.	: 2846.1001-028	
Application No.:	10/090,418	Group:	1617	
Filed:	March 1, 2002	Examiner:	n/a	
Confirmation No.:	8180			
Title:	Aerodynamically Light Pa	articles For Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A		
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>	·		
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No	.: 2846.1001-031	
Application No.:	10/209,654	Group:	1616	
Filed:	July 30, 2002	Examiner:	Not assigned	
Confirmation No.:	5830			
Title:	Porous Particles Compri	sing Excipients Fo	r Deep Lung Delivery	
Patent No.:	N/A	Granted: N/A		
Assignee:	<ol> <li>Massachusetts Institu</li> <li>The Penn State Research</li> </ol>			
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	: 2846.1002-000	
Application No.:	08/739,308	Group:	1615	
Filed:	October 29, 1996	Examiner:	Raj Bawa	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery			
Patent No.:	5,874,064	Granted: February 23, 1999		
Assignee:		<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Pa	articles For Pulmo	nary Drug Delivery
Patent No.:	6,136,295	Granted: Octo	ober 24, 2000
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	<ol> <li>January 17, 1997</li> <li>January 17, 1997</li> </ol>	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.: 2846.1002-002	
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	6,399,102	Granted: June 4, 2002	
Assignee:		enn State Research Foundation chusetts Institute of Technology	
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	No.: 2846.1002-003	
Application No.:	90/006,092	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7468			
Title:	Aerodynamically Light Par	ticles For Pulmo	nary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issued: December 10, 2002		
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>			
Recordation Date:	<ol> <li>January 17, 1997</li> <li>January 17, 1997</li> </ol>	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-004	
Application No.:	90/006,094	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7466			
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery			
Patent No.:	6,136,295C1	Granted: October 29, 2002		
Assignee:		<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>January 17, 1997</li> <li>January 17, 1997</li> </ol>	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmona	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>		
Recordation Date:	<ol> <li>August 29, 2000</li> <li>August 29, 2000</li> </ol>	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer		.: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery		
Patent No.:	5,855,913	Granted: Januar	ry 5, 1999
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		.: 2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	ticles For Inhalation	n
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institut</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.	: 2846.1003-007
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery		
Patent No.:	RE37,053 E	Granted: Februar	
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No	o.: 2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A		
Title:	Preparation of Particles For	· Inhalation	
Patent No.:	5,985,309	Granted: Nove	ember 16, 1999
Assignee:	<ol> <li>Massachusetts Institute of the Penn State Research</li> </ol>	<b>-</b>	
Recordation Date:	<ol> <li>December 22, 1997</li> <li>December 22, 1997</li> </ol>	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Hav	ing Sustained Rel	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute o</li> <li>The Penn State Research</li> </ol>		

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		·
Title:	Particles For Inhalation F	Iaving Sustained R	elease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institut</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants	D'4-17-1		
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.	: 2846.1003-011
Application No.:	60/059,004	Group:	N/A
Filed:	September 15, 1997	Examiner:	N/A
Confirmation No.:	N/A		
Title:	Preparation of Novel Parti	cles for Inhalation	
Patent No.:	N/A	Granted: N/A	
Assignee:	N/A		
Recordation Date:	N/A	Reel: N/A	Frame(s): N/A

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No	.: 2846.1003-012
Application No.:	09/006,091	Group:	1616
Filed:	July 12, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	7469		
Title:	Particles Incorporating Sur	rfactants For Puln	nonary Drug Delivery
Patent No.:	RE37,053	Granted: Febru	ary 13, 2001
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>March 20, 1997</li> <li>March 20, 1997</li> </ol>	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		To.: 2846.1003-013
Application No.:	90/006,093	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7467		
Title:	Preparation Of Particles Fo	r Inhalation	
Patent No.:	5,985,309 C1	Granted: Dec	ember 31, 2002
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702

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Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	.: 2846.1003-014
10/094,955	Group:	1616
March 7, 2002	Examiner:	Mina Haghighatian
7624		
Particles For Inhalation Hav	ing Sustained Rele	ease Properties
N/A	Granted: N/A	
<ol> <li>The Penn State Research Foundation</li> <li>Massachusetts Institute of Technology</li> </ol>		
1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368
10/420,071	Group:	Not assigned
April 18, 2003	Examiner:	Not assigned
N/A		
Particles for Inhalation Havi	ng Sustained Relea	ase Properties
N/A	Granted: N/A	
1. August 13, 2001	Reel: 1. 012078	Frames: 1. 0156-0164
	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen  10/094,955  March 7, 2002  7624  Particles For Inhalation Have N/A  1. The Penn State Research 2. Massachusetts Institute of 1. November 7, 2002 2. November 7, 2002 2. November 7, 2002 3. November 7, 2002 3. November 7, 2002 4. November 7, 2002 5. November 7, 2002 6. November 7, 2002 7. No	Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen  10/094,955 Group:  March 7, 2002 Examiner:  7624  Particles For Inhalation Having Sustained Released N/A  1. The Penn State Research Foundation 2. Massachusetts Institute of Technology 1. November 7, 2002 Reel: 1. 013470 2. November 7, 2002 2. 013468  10/420,071 Group: April 18, 2003 Examiner:  N/A  Particles for Inhalation Having Sustained Released N/A  1. Massachusetts Institute of Technology 2. The Penn State Research Foundation



#### STATEMENT UNDER 37 C.F.R. § 3.73(b

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	Ma	ssachusetts Institute of Technology	, a corporation
		(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	nat it is		
A.	[X]		nn State Research Foundation, of the entire right, title and interest in the fied in the attached Attachment A; or
B.	[ ]	an assignee together with [ above.	] of the entire right, title and interest in the patent application identified
The rigl	ht, title aı	nd interest of the above-named assig	nee in the patent application identified above is established by virtue of:
A. [ X ]		d in the Patent and Trademark Offic	atent application(s)/patents identified in Attachment A. The assignment we at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof
OR			
В.[]	A chain	of title from the inventor(s) of the p	patent application identified above, to the current assignee as shown below:
	1.	From: The document was recorded in the Reel , Frame	To: Patent and Trademark Office at, or a copy thereof is attached.
	2.	From: The document was recorded in the Reel , Frame	To: Patent and Trademark Office at, or a copy thereof is attached.
	3.	From: The document was recorded in the Reel , Frame	To: Patent and Trademark Office at, or a copy thereof is attached.
	[ ] Ad	ditional documents in the chain of ti	tle are listed on a supplemental sheet.
The und	lersigned	(whose title is supplied below) is au	athorized to act on behalf of the assignee.
Date:	<i>?</i>	by 23,2003	
		ta M. Filipowitz	
Title:	Po	Hent Administrator	
Signatur	re: (	tan M. Allerawa	

#### ATTACHMENT A

			Arterior Commission and Commission and Commission and Commission and Commission and Commission and Commission
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
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Confirmation No.:	N/A		
Title:	Porous Particles for Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

A 1: 4	David A. Edavada	A ttr. De alast Na	2046 1001 001
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmona	ary Drug Delivery
Patent No.:	6,503,480	Granted: January 7, 2003	
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103
A 1: 4	Dovid A. Edwards	Attr. Dealret No.	2046 1001 007
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2840.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Deep Lung Delivery (As Amended)		
Patent No.:	6,254,854	Granted: July 3,	2001
Assignee:	The Penn State Resear     Massachusetts Institute		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-008	
Application No.:	09/888,688	Group:	1616	
Filed:	June 25, 2001	Examiner:	R. Bawa	
Confirmation No.:	2505			
Title:	Porous Particles Comprise Amended)	prising Excipients For Deep Lung Delivery (As		
Patent No.:	6,436,443B2	Granted: August 20, 2002		
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institute</li> </ol>	•		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes,	Atty. Docket No.:	2846_1001-009	
	Robert S. Langer and Abdellaziz Ben-Jebria			
Application No.:	_	Group:	1616	
Application No.:	Abdellaziz Ben-Jebria	Group: Examiner:	1616 Mina Haghighatian	
	Abdellaziz Ben-Jebria 09/891,131	•		
Filed:	Abdellaziz Ben-Jebria 09/891,131 June 25, 2001	Examiner:	Mina Haghighatian	
Filed: Confirmation No.:	Abdellaziz Ben-Jebria 09/891,131 June 25, 2001 2511	Examiner:	Mina Haghighatian	
Filed: Confirmation No.: Title:	Abdellaziz Ben-Jebria  09/891,131  June 25, 2001  2511  Spray Dried Porous Partic	Examiner:  cles For Deep Lung  Granted: Septen  ch Foundation	Mina Haghighatian  Delivery (As Amended)	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-010	
Application No.:	09/888,781	Group:	1616	
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	9010			
Title:	Amorphous Porous Partic	eles For Deep Lung	Delivery (As Amended)	
Patent No.:	6,447,752	Granted: Septer	nber 10, 2002	
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institut</li> </ol>			
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028	
Application No.:	10/090,418	Group:	1617	
Filed:	March 1, 2002	Examiner:	n/a	
Confirmation No.:	8180			
Title:	Aerodynamically Light Pa	nt Particles For Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A		
Assignee:	The Penn State Research     Massachusetts Institute			
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Compri	sing Excipients For	Deep Lung Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institu</li> <li>The Penn State Resea</li> </ol>	<b>e.</b>	
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin	Atty. Docket No.:	2846.1002-000
	Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer		
Application No.:	Ben-Jebria, and Robert	Group:	1615
Application No.:	Ben-Jebria, and Robert S. Langer	Group: Examiner:	1615 Raj Bawa
	Ben-Jebria, and Robert S. Langer 08/739,308	-	
Filed:	Ben-Jebria, and Robert S. Langer 08/739,308 October 29, 1996	Examiner:	Raj Bawa
Filed: Confirmation No.:	Ben-Jebria, and Robert S. Langer 08/739,308 October 29, 1996 N/A	Examiner: Particles For Pulmon	Raj Bawa
Filed: Confirmation No.: Title:	Ben-Jebria, and Robert S. Langer  08/739,308  October 29, 1996  N/A  Aerodynamically Light F	Examiner: Particles For Pulmor Granted: Februa	Raj Bawa nary Drug Delivery

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	.: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	rticles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295	Granted: Octol	ber 24, 2000
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No	.: 2846.1002-002
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	rticles For Pulmon	ary Drug Delivery
Patent No.:	6,399,102	Granted: June 4,	2002
Assignee:	The Penn State Researc     Massachusetts Institute		
Recordation Date:	1. August 29, 2000	Reel: 1. 011098	Frames: 1. 0746-0749

Applicants:  Application No.:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer		o.: 2846.1002-003
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery
Patent No.:	5,874,064C1	Certificate Issue	ed: December 10, 2002
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>	<del></del>	
Recordation Date:	<ol> <li>January 17, 1997</li> <li>January 17, 1997</li> </ol>	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-004
Application No.:	90/006,094	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7466		:
Title:	Aerodynamically Light Part	ticles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295C1	Granted: October 29, 2002	
Assignee:	<ol> <li>Massachusetts Institute c</li> <li>The Penn State Research</li> </ol>		

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Part	ticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute of</li> </ol>		
Recordation Date:	<ol> <li>August 29, 2000</li> <li>August 29, 2000</li> </ol>	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	actants For Pulmon	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:		
Application No.:	09/394,233	Group:	1616	
Filed:	September 13, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	3922			
Title:	Preparation of Novel Part	icles For Inhalation		
Patent No.:	N/A	Granted: N/A		
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Resear</li> </ol>			
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333	
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.:	2846.1003-007	
Application No.:	09/351,341	Group:	1615	
Filed:	July 12, 1999	Examiner:	G. Kishore	
Confirmation No.:	N/A			
Confirmation No.: Title:	N/A Particles Incorporating Su	urfactants For Pulmo	onary Drug Delivery	
		urfactants For Pulmo Granted: Februar		
Title:	Particles Incorporating Su	Granted: Februar		

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.	: 2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A		
Title:	Preparation of Particles For Inhalation		
Patent No.:	5,985,309	Granted: November 16, 1999	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>December 22, 1997</li> <li>December 22, 1997</li> </ol>	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Hav	ving Sustained Rele	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>	•	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010	
Application No.:	09/909,145	Group:	1619	
Filed:	July 19, 2001	Examiner:	Not Assigned	
Confirmation No.:	7807			
Title:	Particles For Inhalation H	aving Sustained Re	lease Properties	
Patent No.:	N/A	Granted: N/A		
Assignee:		Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333	
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Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:	2846.1003-011	
Application No.:	60/059,004	Group:	N/A	
Filed:	September 15, 1997	Examiner:	N/A	
Confirmation No.:	N/A			
Title:	Preparation of Novel Part	icles for Inhalation		
Patent No.:	N/A	Granted: N/A		
Assignee:	N/A			
Recordation Date:	N/A	Reel: N/A	Frame(s): N/A	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012
Application No.:	09/006,091	Group:	1616
Filed:	July 12, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	7469		. •
Title:	Particles Incorporating Sur	factants For Pulmo	onary Drug Delivery
Patent No.:	RE37,053	Granted: Februa	ry 13, 2001
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-013
			•
Application No.:	90/006,093	Group:	1616
Application No.: Filed:	90/006,093 August 22, 2001		1616 Mina Haghighatian
		Group:	
Filed:	August 22, 2001	Group: Examiner:	
Filed: Confirmation No.:	August 22, 2001 7467	Group: Examiner: or Inhalation	
Filed: Confirmation No.: Title:	August 22, 2001 7467 Preparation Of Particles Fo	Group: Examiner: or Inhalation Granted: Dece	Mina Haghighatian

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	: 2846.1003-014
Application No.:	10/094,955	Group:	1616
Filed:	March 7, 2002	Examiner:	Mina Haghighatian
Confirmation No.:	7624		
Title:	Particles For Inhalation Hav	ving Sustained Rele	ease Properties
Patent No.:	N/A	Granted: N/A	·
Assignee:	The Penn State Research Foundation     Massachusetts Institute of Technology		
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group:	Not assigned
Filed:	April 18, 2003	Examiner:	Not assigned
Confirmation No.:	N/A		
Title:	Particles for Inhalation Having Sustained Release Properties		
Patent No.:	N/A	Granted: N/A	
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING
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Date () Signature .
Jean A. White
Typed or printed name of person signing certificate

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### REVOCATION OF POWERS OF ATTORNEY AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C. 209 Main Street No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No. Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq. at (978) 273-3298.

]	Respectfully submitted,
]	Massachusetts Institute of Technology
]	Зу
-	Γitle:
I	Date
_	The Penn State Research Foundation
F	By: Kall J. Hus
7	Ronald J. Huss  Title: Director Intellectual Property Office
. I	Date: June 6, 2003

#### ATTACHMENT A

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A	1	
Title:	Porous Particles for Pulmonary Drug Delivery		
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-001	
Application No.:	09/194,068	Group: 1619	
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner: R. Bawa	
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmonary Drug Delivery	
Patent No.:	6,503,480	Granted: January 7, 2003	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9923 Frames: 1. 0384-0392 2. 9925 2. 0098-0103	
(8575 GA 1488 (8514 A 1539)			
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:2846.1001-007	
Application No.:	09/569,153	Group: 1619	
Filed:	May 11, 2000	Examiner: R. Bawa	
Confirmation No.:	N/A		
Title:	Porous Particles for Deep	Lung Delivery (As Amended)	
Patent No.:	6,254,854	Granted: July 3, 2001	
Assignee:	The Penn State Resear     Massachusetts Institute		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875	

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-008	
Application No.:	09/888,688	Group:	1616	
Filed:	June 25, 2001	Examiner:	R. Bawa	
Confirmation No.:	2505			
Title:	Porous Particles Compris Amended)	orising Excipients For Deep Lung Delivery (As		
Patent No.:	6,436,443B2	Granted: August 20, 2002		
Assignee:	<ol> <li>The Penn State Research Foundation</li> <li>Massachusetts Institute of Technology</li> </ol>			
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
Applicants:	David A. Edwards,	Attr. Dealset No.	2946 1001 000	
	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:		
Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and	Group:	1616	
	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	·		
Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Group:	1616	
Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001	Group: Examiner:	1616 Mina Haghighatian	
Application No.: Filed: Confirmation No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001	Group: Examiner:	1616 Mina Haghighatian	
Application No.: Filed: Confirmation No.: Title:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria  09/891,131  June 25, 2001  2511  Spray Dried Porous Partic	Group:  Examiner:  les For Deep Lung  Granted: Septement Foundation	1616 Mina Haghighatian Delivery (As Amended)	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	: 2846.1001-010	
Application No.:	09/888,781	Group:	1616	
Filed:	June 25, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	9010	·		
Title:	Amorphous Porous Partic	cles For Deep Lung	Delivery (As Amended)	
Patent No.:	6,447,752	Granted: Septer	nber 10, 2002	
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institute</li> </ol>			
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028	
Application No.:	10/090,418	Group:	1617	
Filed:	March 1, 2002	Examiner:	n/a	
Confirmation No.:	8180			
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery	
Patent No.:	N/A	Granted: N/A		
Assignee:	The Penn State Research     Massachusetts Institute			
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery		
Patent No.:	N/A	Granted: N/A	
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	<ol> <li>March 5, 1998</li> <li>October 30, 2000</li> </ol>	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	2846.1002-000
Application No.:	08/739,308	Group:	1615
Filed:	October 29, 1996	Examiner:	Raj Bawa
Confirmation No.:	N/A		
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	5,874,064	Granted: February 23, 1999	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. January 17, 1997	Reel: 1. 8388	Frames: 1. 0959-0965

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Pa	rticles For Pulmor	nary Drug Delivery
Patent No.:	6,136,295	Granted: Octo	ber 24, 2000
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
			是世界的1922年,2018年1922年(1918年)。 1918年1918年1918年1918年1918年1918年1918年1918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No	.: 2846.1002-002
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	ticles For Pulmon	ary Drug Delivery
Patent No.:	6,399,102	Granted: June 4,	2002
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	To.: 2846.1002-003
Application No.:	90/006,092	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Par	ticles For Pulmor	nary Drug Delivery
Patent No.:	5,874,064C1	Certificate Issu	ed: December 10, 2002
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-004
Application No.:	90/006,094	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7466		
Title:	Aerodynamically Light Part	icles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295C1	Granted: Octo	ober 29, 2002
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>	<b>-</b>	

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute</li> </ol>		
Recordation Date:	<ol> <li>August 29, 2000</li> <li>August 29, 2000</li> </ol>	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	State of Court and State of Court of Co
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		·
Title:	Particles Incorporating Surf	factants For Pulmo	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	icles For Inhalation	1
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.	: 2846.1003-007
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Filed: Confirmation No.:	July 12, 1999 N/A	Examiner:	G. Kishore
Confirmation No.:	N/A		onary Drug Delivery
Confirmation No.:	N/A Particles Incorporating Su	orfactants For Pulm Granted: Februa	onary Drug Delivery

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No	.: 2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A		
Title:	Preparation of Particles For	Inhalation	
Patent No.:	5,985,309	Granted: Nove	mber 16, 1999
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	<ol> <li>December 22, 1997</li> <li>December 22, 1997</li> </ol>	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Hav	ring Sustained Rel	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute o</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		
Title:	Particles For Inhalation H	aving Sustained Re	elease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institut</li> <li>The Penn State Resear</li> </ol>		
Recordation Date:	<ol> <li>January 3, 2000</li> <li>January 3, 2000</li> </ol>	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
			general de manager de la servició d
Applicants:	Rita Vanbever, Jeffrey Mintzes,	Atty. Docket No.:	2846.1003-011
	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards		
Application No.:	Jue Wang, Donghao Chen, Robert S. Langer, and	Group:	N/A
Application No.:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Group: Examiner:	N/A N/A
	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	-	
Filed:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Examiner:	
Filed: Confirmation No.:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards  60/059,004  September 15, 1997  N/A	Examiner:	
Filed: Confirmation No.: Title:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A Preparation of Novel Part	Examiner:	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012
Application No.:	09/006,091	Group:	1616
Filed:	July 12, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	7469		
Title:	Particles Incorporating Sur	factants For Pulm	onary Drug Delivery
Patent No.:	RE37,053	Granted: Februa	ary 13, 2001
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	<ol> <li>March 20, 1997</li> <li>March 20, 1997</li> </ol>	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140
Caraller St.			
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-013
Application No.:	90/006,093	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7467		
Title:	Preparation Of Particles Fo	or Inhalation	
Patent No.:	5,985,309 C1	Granted: Dece	ember 31, 2002
Assignee:	<ol> <li>Massachusetts Institute</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014
Application No.:	10/094,955	Group:	1616
Filed:	March 7, 2002	Examiner:	Mina Haghighatian
Confirmation No.:	7624	•	
Title:	Particles For Inhalation Hav	ving Sustained Rele	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>The Penn State Research</li> <li>Massachusetts Institute of</li> </ol>		÷
Recordation Date:	<ol> <li>November 7, 2002</li> <li>November 7, 2002</li> </ol>	Reel: 1. 013470 2. 013468	Frames: 1: 0864-0867 2: 0360-0368
Application No.:	10/420,071	Group:	Not assigned
Filed:	April 18, 2003	Examiner:	Not assigned
Confirmation No.:	N/A		
Title:	Particles for Inhalation Hav	ing Sustained Relea	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute o</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140





## STATEMENT UNDER 37 C.F.R. § 3.73(b)

	The	The Penn State Research Foundation, a corporation	•
		(Name of Assignee) (Type of Assignee, e.g., corporation, partnership	, university, government agency, etc.)
states th	nat it is	s	
<b>A.</b>	[X]	] the assignee, together with Massachusetts Institute of Technology, of the entire rig patent application(s)/patents identified in the attached Attachment A; or	tht, title and interest in the
B.	[ ]	an assignee together with [ ] of the entire right, title and interest in the pa above.	tent application identified
The rigi	ht, title ar	e and interest of the above-named assignee in the patent application identified above is	established by virtue of:
A. [ X ]	An assignment of the corder attached	assignment from the inventor(s) of the patent application(s)/patents identified in Attacherded in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attached.	ment A. The assignment was hment A, or a copy thereof is
OR			
B. [ ]	A chain	nain of title from the inventor(s) of the patent application identified above, to the curren	t assignee as shown below:
	1.	From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame, or a copy thereof is attached.	
	2.	From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or a copy thereof is attached.	
	3.	From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame, or a copy thereof is attached.	
	[ ] Ad	Additional documents in the chain of title are listed on a supplemental sheet.	
The und	lersigned	ned (whose title is supplied below) is authorized to act on behalf of the assignee.	
Date:	Ju	June 6, 2003	
Name:	Rc	Ronald J. Huss	
Title:	Di	Director, Intellectual Property Office	
Signatu	re:	Rada J. Hus	

## ATTACHMENT A

			CONTRACTOR STATE
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmor	nary Drug Deliver	у
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>	0.5	
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.	: 2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmon	ary Drug Delivery
Patent No.:	6,503,480	Granted: January	7, 2003
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	<ol> <li>April 8, 1999</li> <li>April 8, 1999</li> </ol>	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.	:2846.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Deep	Lung Delivery (As	s Amended)
Patent No.:	6,254,854	Granted: July 3	, 2001
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institute</li> </ol>		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008
Application No.:	09/888,688	Group: 1616
Filed:	June 25, 2001	Examiner: R. Bawa
Confirmation No.:	2505	
Title:	Porous Particles Compris Amended)	ing Excipients For Deep Lung Delivery (As
Patent No.:	6,436,443B2	Granted: August 20, 2002
Assignee:	<ol> <li>The Penn State Resear</li> <li>Massachusetts Institut</li> </ol>	
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009
Applicants:  Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and	Atty. Docket No.: 2846.1001-009  Group: 1616
	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	
Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Group: 1616
Application No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001 2511	Group: 1616
Application No.: Filed: Confirmation No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001 2511	Group: 1616 Examiner: Mina Haghighatian
Application No.: Filed: Confirmation No.: Title:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria  09/891,131  June 25, 2001  2511  Spray Dried Porous Partic	Group: 1616  Examiner: Mina Haghighatian  eles For Deep Lung Delivery (As Amended)  Granted: September 10, 2002  ch Foundation

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-010
Application No.:	09/888,781	Group:	1616
Filed:	June 25, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	9010		
Title:	Amorphous Porous Particles For Deep Lung Delivery (As Amended)		
Patent No.:	6,447,752	Granted: Septer	nber 10, 2002
Assignee:	<ol> <li>The Penn State Research Foundation</li> <li>Massachusetts Institute of Technology</li> </ol>		
Recordation Date:	<ol> <li>October 30, 2000</li> <li>July 26, 1996</li> </ol>	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
			nata ar
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-028	
Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	·
Assignee:	The Penn State Research     Massachusetts Institute		
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery		
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>March 5, 1998</li> <li>October 30, 2000</li> </ol>	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin	Atty. Docket No.:	2846.1002-000
	Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer		
Application No.:	Ben-Jebria, and Robert	Group:	1615
Application No.:	Ben-Jebria, and Robert S. Langer	Group: Examiner:	1615 Raj Bawa
	Ben-Jebria, and Robert S. Langer 08/739,308	**************************************	
Filed:	Ben-Jebria, and Robert S. Langer 08/739,308 October 29, 1996	Examiner:	Raj Bawa
Filed: Confirmation No.:	Ben-Jebria, and Robert S. Langer 08/739,308 October 29, 1996 N/A	Examiner: articles For Pulmon	Raj Bawa
Filed: Confirmation No.: Title:	Ben-Jebria, and Robert S. Langer 08/739,308 October 29, 1996 N/A Aerodynamically Light P	Examiner:  articles For Pulmon  Granted: Februar  e of Technology	Raj Bawa nary Drug Delivery

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.	.: 2846.1002-001	
Application No.:	09/211,940	Group:	1615 :	
Filed:	December 15, 1998	Examiner:	S. Howard	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Pa	rticles For Pulmon	ary Drug Delivery	
Patent No.:	6,136,295	Granted: October 24, 2000		
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation			
Recordation Date:	<ol> <li>January 17, 1997</li> <li>January 17, 1997</li> </ol>	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918	
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.	: 2846.1002-002	
Application No.:	09/562,988	Group:	1615	
Filed:	May 1, 2000	Examiner:	S. Howard	
Confirmation No.:	N/A			
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery			
Patent No.:	6,399,102	Granted: June 4,	2002	
A!	The Penn State Research Foundation     Massachusetts Institute of Technology			
Assignee:				

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-003
Application No.:	90/006,092	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery		
Patent No.:	5,874,064C1	Certificate Issued: December 10, 2002	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-004	
Application No.:	90/006,094	Group:	1616
Application No.: Filed:	90/006,094 August 22, 2001	Group: Examiner:	1616 Mina Haghighatian
		<u>-</u>	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Filed: Confirmation No.:	August 22, 2001 7466	Examiner:	Mina Haghighatian
Filed: Confirmation No.: Title:	August 22, 2001 7466 Aerodynamically Light Part	Examiner: icles For Pulmon Granted: Octo	Mina Haghighatian ary Drug Delivery

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	.: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Foundation     Massachusetts Institute of Technology		
Recordation Date:	<ol> <li>August 29, 2000</li> <li>August 29, 2000</li> </ol>	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	actants For Pulmon	nary Drug Delivery
Patent No.:	5,855,913	Granted: Januar	ry 5, 1999
Assignee:	<ol> <li>Massachusetts Institute of</li> <li>The Penn State Research</li> </ol>		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Particles For Inhalation		
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.:	. A distribute a september de la communicación de la communicación de la communicación de la communicación de La communicación de la communic
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Filed: Confirmation No.:	July 12, 1999 N/A	Examiner:	G. Kishore
Confirmation No.:	N/A		onary Drug Delivery
Confirmation No.:	N/A Particles Incorporating Su	orfactants For Pulmo Granted: Februar e of Technology	onary Drug Delivery

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.	: 2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A		
Title:	Preparation of Particles For	Inhalation	
Patent No.:	5,985,309	Granted: Nove	mber 16, 1999
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
			20464002000
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	.: 2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Having Sustained Release Properties		
Patent No.:	N/A	Granted: N/A	
Assignee:	<ol> <li>Massachusetts Institute of the Penn State Research</li> </ol>		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		
Title:	Particles For Inhalation Having Sustained Release Properties		
Patent No.:	N/A	Granted: N/A	
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
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Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.	: 2846.1003-011
Applicants:  Application No.:	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and	Atty. Docket No.	: 2846.1003-011 N/A
	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards		
Application No.:	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	Group:	N/A
Application No.:	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Group: Examiner:	N/A
Application No.: Filed: Confirmation No.:	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A	Group: Examiner:	N/A
Application No.: Filed: Confirmation No.: Title:	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards  60/059,004  September 15, 1997  N/A  Preparation of Novel Part	Group: Examiner: icles for Inhalation	N/A

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012
Application No.:	09/006,091	Group:	1616
Filed:	July 12, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	7469		
Title:	Particles Incorporating Sur	factants For Pulmo	onary Drug Delivery
Patent No.:	RE37,053 Granted: February 13, 2001		
Assignee:	<ol> <li>Massachusetts Institute of Technology</li> <li>The Penn State Research Foundation</li> </ol>		
Recordation Date:	<ol> <li>March 20, 1997</li> <li>March 20, 1997</li> </ol>	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140
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	ACC - VI. J. C. S. C.		
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-013
	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue		o.: 2846.1003-013 1616
Applicants:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	•	
Applicants:  Application No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093	Group:	1616
Applicants:  Application No.: Filed:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001	Group: Examiner:	1616
Applicants:  Application No.:  Filed:  Confirmation No.:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001 7467	Group: Examiner:	1616 Mina Haghighatian
Applicants:  Application No.:  Filed:  Confirmation No.:  Title:	S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen 90/006,093 August 22, 2001 7467 Preparation Of Particles Fo	Group: Examiner: or Inhalation Granted: Dece	1616 Mina Haghighatian

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014	
Application No.:	10/094,955	Group:	1616	
Filed:	March 7, 2002	Examiner:	Mina Haghighatian	
Confirmation No.:	7624			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	<ol> <li>The Penn State Research Foundation</li> <li>Massachusetts Institute of Technology</li> </ol>			
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368	
Application No.:	10/420,071	Group:	Not assigned	
Filed:	April 18, 2003	Examiner:	Not assigned	
Confirmation No.:	N/A			
Title:	Particles for Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	Massachusetts Institute of Technology     The Penn State Research Foundation			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140	